

Contents Volume 112, 1994

Research Papers

Late Cenozoic basaltic volcanism around the Taiwan Strait, SE China: Product of lithosphere-asthenosphere interaction during continental extension S.-L. Chung, S. Sun, K. Tu, C.-H. Chen and C. Lee	1
Sm-Nd isotope systematics of 1.9-1.8-Ga granites from western Bergslagen, Sweden: inferences on a 2.1-2.0-Ga crustal precursor P.J. Valbracht.....	21
A re-examination of the influence of composition on argon retentivity in metamorphic calcic amphiboles M.A. Cosca and R. Keith O'Nions	39
High-resolution SIMS analysis of common lead N.S. Belshaw, R.K. O'Nions, D.J. Martel and K.W. Burton.....	57
Rb-Sr systematics of Vendian-Cambrian claystones from the east European Platform: implications for a multi-stage illite evolution I.M. Gorokhov, N. Clauer, T.L. Turchenko, N.N. Melnikov, E.P. Kutyavin, E. Pirrus and A.V. Baskakov	71
The release of phosphorus from oxygenated estuarine sediments W.A. Maher and M. DeVries.....	91
Carbonate geochemistry and the concentrations of aqueous Mg^{2+} , Sr^{2+} and Ca^{2+} : Western north coast of the Yucatan, Mexico A.S. Reeve and E.C. Perry	105

Discussion

Constraints on rare gas partition coefficients from analysis of olivine-glass from a picritic mid-ocean ridge basalt — Comments H. Hiyagon.....	119
Constraints on rare gas partition coefficients from analysis of olivine-glass from a picritic mid-ocean ridge basalt — Reply B. Marty and P. Lussiez.....	122

Isotope Geoscience Section

Research Papers

Criteria for the retention of original seawater $^{87}Sr/^{86}Sr$ in ancient shelf limestones R.E. Denison, R.B. Koepnick, A. Fletcher, M.W. Howell and W.S. Callaway	131
Construction of the Mississippian, Pennsylvanian and Permian seawater $^{87}Sr/^{86}Sr$ curve R.E. Denison, R.B. Koepnick, W.H. Burke, E.A. Hetherington and A. Fletcher	145
Towards zircon fission-track thermochronology: Reference framework for confined track length measurements N. Hasebe, T. Tagami and S. Nishimura.....	169
(Uranium + thorium)/helium dating of apatite: experience with samples from different geochemical environments H.J. Lippolt, M. Leitz, R.S. Wernicke and B. Hagedorn.....	179

Discussion

A new approach for the determination of age of a partial or complete homogenisation of Pb isotopes — Example: anchimetamorphic, detrital sediments of the Central Iberian Zone, Spain — Comments I. Wendt	193
A new approach for the determination of age of a partial or complete homogenisation of Pb isotopes — Example: anchimetamorphic, detrital sediments of the Central Iberian Zone, Spain — Reply Th.F. Nägler, H.-J. Schäfer and D. Gebauer	194

Book Review

Proterozoic Crustal Evolution, by K.C. Condie (Editor) — H. Baadsgaard..... 197

Research Papers

Aluminous subsolvus anorogenic granite genesis in the light of Nd isotopic heterogeneity
F. Poitrasson, C. Pin, J.-L. Duthou and B. Platevoet..... 199

Geochemistry of Spanish sepiolite-palygorskite deposits: Genetic considerations based on trace elements and isotopes
J. Torres-Ruiz, A. López-Galindo, J.M. González-López and A. Delgado 221

The occurrence and chemistry of huntite from Oman
G. Stanger and C. Neal 247

Trace-metal behaviour in oxic and anoxic Ca-Cl brines of the Wright Valley drainage, Antarctica
J.G. Webster 255

Metal contamination due to mining and milling activities at the Zawar zinc mine, Rajasthan, India 1.
Contamination of stream sediments
B.G. Prusty, K.C. Sahu and G. Godgul 275

Metal contamination due to mining and milling activities at the Zawar zinc mine, Rajasthan, India 2. Dispersion in floodplain soils of stream
K.C. Sahu, B.G. Prusty and G. Godgul 293

Variability of early diagenesis in lake sediments: Evidence from the sedimentary geolipid record in an isolated tarn
E.S. Ho and P.A. Meyers 309

*Isotope Geoscience Section**Research Papers*

Carbon and noble gases in Archean chert
Y. Sano, K. Nagao and C.T. Pillinger..... 327

Excess argon in phengite from eclogite: Evidence from dating of eclogite minerals by Sm-Nd, Rb-Sr and $^{40}\text{Ar}/^{39}\text{Ar}$ methods
S. Li, S. Wang, Y. Chen, D. Liu, J. Qiu, H. Zhou and Z. Zhang 343

The age and origin of the barite-fluorite (Pb-Zn) veins of the Sierra del Guadarrama (Spanish Central System, Spain): a radiogenic (Nd, Sr) and stable isotope study
C. Galindo, F. Tornos, D.P.F. Darbyshire and C. Casquet 351

Contents Volume 112, 1994 365